

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

*** NOTICES ***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.

2.**** shows the word which can not be translated.

3.In the drawings, any words are not translated.

Bibliography

(19) [Country of Issue] Japan Patent Office (JP)

(12) [Official Gazette Type] Open patent official report (A)

(11) [Publication No.] JP,2002-74468,A (P2002-74468A)

(43) [Date of Publication] March 15, Heisei 14 (2002. 3.15)

(54) [Title of the Invention] Facility equipment for games

(51) [The 7th edition of International Patent Classification]

G07F 7/08

A63F 7/02 352

B42D 15/10 521

G06K 17/00

G07D 9/00 GBV

306

416

[F]

A63F 7/02 352 F

B42D 15/10 521

G06K 17/00 R

G07D 9/00 GBV

306

416 C

G07F 7/08 K

[Request for Examination] Un-asking.

[The number of claims] 17

[Mode of Application] OL

[Number of Pages] 17

(21) [Filing Number] Application for patent 2000-253671 (P2000-253671)

(22) [Filing Date] August 24, Heisei 12 (2000. 8.24)

(71) [Applicant]

[Identification Number] 000144153

[Name] Sankyo Co., Ltd.

[Address] 6-460, Sakaino-cho, Kiryu-shi, Gumma-ken

(72) [Inventor(s)]

[Name] Ukawa Imperial edict 8

[Address] 1-164-5, Aioi-cho, Kiryu-shi, Gumma-ken

(74) [Attorney]

[Identification Number] 100098729

[Patent Attorney]

[Name] Shigenobu Kazuo (besides one person)

[Theme code (reference)]

2C005

2C088

3E001

3E040

3E044

5B058

[F term (reference)]

2C005 MB02 MB09 NA06 SA01 SA21 TA03 TA22 TA24

2C088 BA88 BB01 BB13 BB15 BB19 BB20 BB21 BB23 BB25 BB27 BB30 BB36 BC78

BC79 CA08 CA23 EA45

3E001 BA01 BA02 BA05 CA08 DA03 EB14 FA06 FA22 FA23

3E040 AA01 BA13 FG01 FG06

3E044 AA05 BA01 BA02 BA06 CA06 DA02 DB02 DB15 DD03 FA03 FA11 FA13

5B058 CA15 KA12 YA06

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.

2.**** shows the word which can not be translated.

3.In the drawings, any words are not translated.

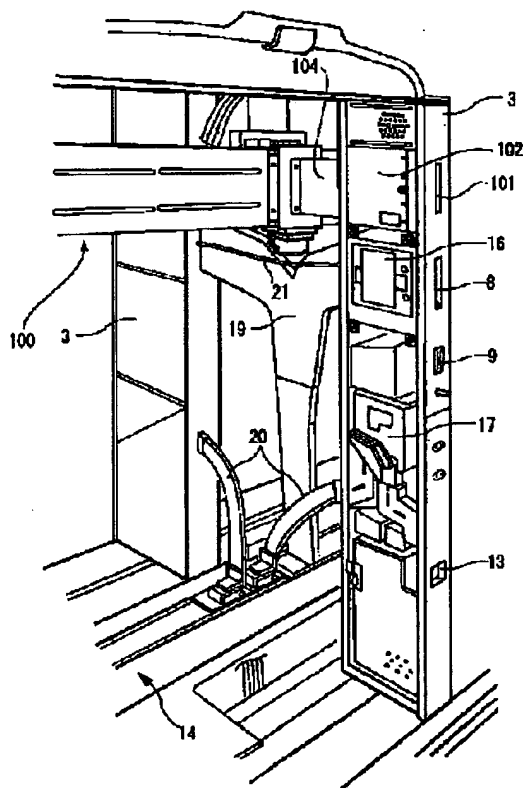
Summary

(57) [Abstract] (*****)

[Technical problem] Even if an obstacle arises on a conveyance way, the damage by this obstacle will be suppressed to the minimum.

[Means for Solution] While performing processing for making the size of a coin processing means 17 to discriminate a receptionist beam coin, a bill processing means 102 to discriminate the received bill, and the valuable value specified from the received record medium use it for a game A record-medium processing means 16 to discharge the aforementioned receptionist beam record medium outside based on formation of predetermined recovery conditions, The 1st passage 14 for carrying out mixture conveyance at the judgment hold section which classifies individually the equipment 3 for *****, and the coin, bill and record medium by which discharge was carried out [aforementioned], and holds them, The 2nd passage 100 for conveying a bill, and the 1st branch way 20 which connects the aforementioned 1st passage 14 so that the aforementioned discharge coin may join, the 2nd branch way 19 which connects the aforementioned 1st passage 14 so that the aforementioned discharge record medium may join the aforementioned 1st passage 14, and the 3rd branch way 104 which connects the aforementioned 2nd passage 100 so that the aforementioned discharge bill may join the aforementioned 2nd passage 100 — since — it changes

[Translation done.]



[Translation done.]

*** NOTICES ***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] The judgment hold section which is prepared in the equipment for games characterized by providing the following, this equipment for games, and the distant predetermined position, classifies individually the coin, bill, and record medium by which discharge was carried out [aforementioned], and holds them, The 1st passage for carrying out mixture conveyance of the record medium discharged from the coin and the aforementioned record-medium processing means which are discharged from the aforementioned coin processing means at the aforementioned judgment hold section, The 2nd passage for conveying the bill discharged from the aforementioned bill processing means to the aforementioned judgment hold section, The 1st branch way which connects the aforementioned coin processing means and the aforementioned 1st passage so that the aforementioned discharge coin may join the aforementioned 1st passage, The 2nd branch way which connects the aforementioned record-medium processing means and the aforementioned 1st passage so that the aforementioned discharge record medium may join the aforementioned 1st passage, the 3rd branch way which connects the aforementioned bill processing means and the aforementioned 2nd passage so that the aforementioned discharge bill may join the aforementioned 2nd passage -- since -- the facility equipment for games characterized by changing A coin processing means to discharge this discernment coin outside while discriminating a receptionist beam coin and performing predetermined processing accompanying the size of the coin value While discriminating a receptionist beam bill and performing predetermined processing accompanying the size of the bill value While performing processing for making the size of a bill processing means to discharge this discernment bill outside, and the valuable value specified from this recording information by reading the information currently recorded on the received record medium at least use it for a game A record-medium processing means to discharge the aforementioned receptionist beam record medium outside based on formation of predetermined

recovery conditions

[Claim 2] Facility equipment for games according to claim 1 by which each branch way of the aforementioned equipment for games established in the position which counters across each of this aforementioned passage is connected to this same passage where each branch way corresponds.

[Claim 3] The aforementioned 2nd branch way is facility equipment for games according to claim 1 or 2 which possesses a speed regulation means to regulate the unification speed to the aforementioned 1st passage of this record medium while the aforementioned discharge record medium is formed possible [flowing down].

[Claim 4] Facility equipment for games according to claim 3 with which the aforementioned speed regulation means is formed by incurvating suitably a unification section configuration with the aforementioned 1st passage of the aforementioned 2nd branch way along the conveyance direction of the aforementioned 1st passage.

[Claim 5] The aforementioned 1st branch way is facility equipment for games according to claim 1 to 4 which possesses a flowing-down speed regulation means to regulate the flowing-down speed of this coin while the aforementioned discharge coin is formed possible [flowing down].

[Claim 6] The aforementioned flowing-down speed regulation means is facility equipment for games according to claim 5 currently formed in the specification-part material by which the coin which flows down in the unification section with the aforementioned 1st passage of the aforementioned 1st branch way has been arranged possible [a collision].

[Claim 7] Facility equipment for games according to claim 1 to 6 which each aforementioned 2nd branch way which leads to the aforementioned record-medium processing means prepared in the position which counters across the aforementioned 1st passage joins, forms the one 2nd branch way, and is connected to the aforementioned 1st passage.

[Claim 8] Facility equipment for games according to claim 7 which does not discharge a record medium when each aforementioned record-medium processing means which leads to the aforementioned 2nd branch way which carries out unification is connected possible [signal transfer] mutually and the record-medium processing means of another side is outputting the signal of the purport which is [discharge / of a record medium] under processing.

[Claim 9] Facility equipment for games according to claim 1 to 8 which prepared a lap dissolution means to cancel the lap of the lap of a coin and a record medium and coin comrade who have the aforementioned 1st passage conveyed, or a record-medium comrade in the upper part regular position of the aforementioned judgment hold section.

[Claim 10] Facility equipment for games according to claim 9 which the aforementioned lap dissolution means has the conveyance way which constitutes the aforementioned 1st passage, and a predetermined gap, is arranged, and is formed

in the move direction and opposite direction of this conveyance way with the rotation roller by which drive rotation was carried out.

[Claim 11] Facility equipment for games according to claim 10 whose aforementioned rotation roller is a tension roller by which the gap with the aforementioned conveyance way was energized possible [change].

[Claim 12] It is facility equipment for games according to claim 1 to 11 with which the judgment way which has the pore of the predetermined size in which the aforementioned record medium can be passed and a coin falls is established in the aforementioned judgment hold section.

[Claim 13] The aforementioned judgment way is facility equipment for games according to claim 12 with which it is the ramp down which a coin and a record medium can flow, and the frictional resistance reduction member which reduces frictional resistance is formed in this judgment way front face.

[Claim 14] The game island according to claim 12 or 13 which has an alignment means to align the coin which has the aforementioned 1st passage conveyed by the position corresponding to the arrangement position of the pore in the aforementioned judgment way, in the downstream of the aforementioned lap dissolution means.

[Claim 15] Facility equipment for games according to claim 12 to 14 which possesses the coin judgment way which can be classified for every various exceptions for the coin which fell from the aforementioned judgment way based on the outer diameter of this coin.

[Claim 16] counting which carries out counting of recovery number of sheets or the recovery frame based on detection by this sensor while providing the sensor which performs detection of the classified coin, a bill, and a record medium in the aforementioned judgment hold section — the facility equipment for games possessing a means according to claim 1 to 15

[Claim 17] The aforementioned facility equipment for games is equipment for games according to claim 1 to 16 with which it is arranged in the game island in which the game machine was installed, and the aforementioned judgment hold section is contained and arranged inside the aforementioned game island.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.

2.**** shows the word which can not be translated.

3.In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The field of the technology in which invention belongs] this invention is prepared among game machines, such as a pachinko machine and a slot machine, etc. corresponding to this game machine, and relates to the facility equipment for games which can collect and collect record media, such as money by which the injection was carried out [aforementioned], and a prepaid card, from equipments for games, such as a card unit by which injection and insertion of record media, such as money and a prepaid card, were enabled.

[0002]

[Description of the Prior Art] In recent years, as a loan processor which is formed on the game island installed in the amusement center corresponding to game machines, such as a pachinko machine, and lends out the pachinko ball which is a game medium, many things which lend out using record media, such as a prepaid card which enabled it to borrow the predetermined game medium for the amount of money, are used beforehand.

[0003] Although it has the advantage of becoming possible to exclude recovery of the money fed into this loan processor, in the loan processor which uses record media, such as these prepaid cards, as compared with the loan processor with which the loan of a game medium is made by injection of the conventional money The issue (sale) equipment of record media, such as these prepaid cards usually, in being installed in the edge of a game island etc. in many cases and newly carrying out additional purchase using the total amount of a prepaid card for this reason A game person needs to interrupt a game and needs to go out serially even to the aforementioned issue (sale) equipment. Since it changed into the state where it was occupied without the game machine working when it was inconvenient and ****(ed) for about [reducing the interest about a game person's game], and these addition purchase, there was a problem that the availability of a game machine will fall also for an amusement center.

[0004] In recent years, record media, such as the aforementioned prepaid card, to for this reason, equipments for games, such as an usable card unit, as this means that carries out a problem dissolution What gave the issue function of this record medium, and the function which can receive the loan of a game medium also by injection of money, Or many things which gave the additional payment function which can carry out renewal of addition of the valuable value for games corresponding to worth of these injection money at the valuable value for games

which remains in record media, such as the aforementioned prepaid card, are examined increasingly.

[0005] Although it is possible to establish these recovery mechanisms for the purpose of attaining laborsaving of the effort by recovery of these injection money, recovery of the aforementioned record medium, etc. when using the equipment for games which can throw in the both sides of these record media and money Inside the game island in which the card unit which is the aforementioned equipment for games when establishing these recovery mechanism, a game machine, etc. are installed From a feeding chute, etc. various interconnection cables, etc. of the pachinko ball which is a game medium being arranged intricately A few conveyance way and jamming making a conveyance way one, and it being intermingled and conveying [many] all the coins which are the prepaid card and money which are a recovery object, and bills as much as possible, in the former, have been proposed.

[0006]

[Problem(s) to be Solved by the Invention] However, when a conveyance way was made into one in this way, mixture conveyance of all the recovery objects was carried out and the conveyance obstacle etc. occurred on the only conveyance way, there was a case where it became impossible to use no functions of the aforementioned equipment for games, and there was a problem that the damage of an amusement center will become serious in such a case.

[0007] Therefore, even if this invention was made paying attention to the above-mentioned trouble and an obstacle produces it on a conveyance way, it aims at offering the facility equipment for games which can suppress the damage by this obstacle to the minimum.

[0008]

[Means for Solving the Problem] In order to solve said problem, the facility equipment for games of this invention While discriminating a receptionist beam coin and performing predetermined processing accompanying the size of the coin value While discriminating the received bill from a coin processing means to discharge this discernment coin outside and performing predetermined processing accompanying the size of the bill value While performing processing for making the size of a bill processing means to discharge this discernment bill outside, and the valuable value specified from this recording information by reading the information currently recorded on the received record medium at least use it for a game A record-medium processing means to discharge the aforementioned receptionist beam record medium outside based on formation of predetermined recovery conditions, The judgment hold section which is prepared in the equipment for *****, this equipment for games, and the distant predetermined position, classifies individually the coin, bill, and record medium by which eccrisis was carried out [aforementioned], and holds them, The 1st passage for carrying out mixture conveyance of the record medium discharged from the coin and the aforementioned record-medium processing means which are discharged from the aforementioned

coin processing means at the aforementioned judgment hold section, The 2nd passage for conveying the bill discharged from the aforementioned bill processing means to the aforementioned judgment hold section, The 1st branch way which connects the aforementioned coin processing means and the aforementioned 1st passage so that the aforementioned eccrisis coins may be collected in the aforementioned 1st passage, the 2nd branch way which connects the aforementioned record-medium processing means and the aforementioned 1st passage so that the aforementioned eccrisis record media may be collected in the aforementioned 1st passage, and the 3rd branch way which connects the aforementioned bill processing means and the aforementioned 2nd passage so that the aforementioned eccrisis bills may be collected in the aforementioned 2nd passage — since — it is characterized by changing According to this feature, this passage which conveys the coin, bill, and record medium which were collected from the aforementioned equipment for games in the aforementioned judgment hold section Since it is formed in the 1st passage which carries out mixture conveyance of a coin and the record medium, and this passage where the 2nd passage which conveys only a bill is individual and recovery by the other side is possible even if an obstacle occurs temporarily, the damage of the amusement center accompanying these obstacles can be suppressed to the minimum.

[0009] As for the facility equipment for games of this invention, it is desirable that each branch way of the aforementioned equipment for games established in the position which counters across each of this aforementioned passage is connected to this same passage where each branch way corresponds. If it does in this way, the number of each of these needed passage can be made into the minimum, and the structure of equipment will become simpler and the maintenance nature's can improve.

[0010] As for the aforementioned 2nd branch way, it is [the facility equipment for games of this invention] desirable to provide a speed regulation means to regulate the unification speed to the aforementioned 1st passage of this record medium while the aforementioned eccrisis record medium is formed possible [flowing down]. If it does in this way, the aforementioned record medium can prevent joining the aforementioned 1st passage and damaging at too much speed.

[0011] As for the facility equipment for games of this invention, it is desirable that the aforementioned speed regulation means is formed by incurvating suitably a unification section configuration with the aforementioned 1st passage of the aforementioned 2nd branch way along the conveyance direction of the aforementioned 1st passage. If it does in this way, in the unification to about [that the aforementioned speed regulation means can be formed with simple structure] and the 1st passage, the aforementioned record medium will not produce plugging in conveyance in the 1st passage, without being accompanied by electric drive etc.

[0012] As for the aforementioned 1st branch way, it is [the facility equipment for games of this invention] desirable to provide a flowing-down speed regulation

means to regulate the flowing-down speed of this coin while the aforementioned eccrisis coin is formed possible [flowing down]. If it does in this way, the aforementioned eccrisis coin can prevent breakage of this record medium by colliding with the aforementioned record medium which has the aforementioned 1st passage conveyed at too much speed.

[0013] The aforementioned flowing-down speed regulation means of being formed in the specification-part material arranged possible [a collision] is [the facility equipment for games of this invention / the coin which flows down in the unification section with the aforementioned 1st passage of the aforementioned 1st branch way] desirable. If it does in this way, the aforementioned flowing-down speed regulation means can be formed with simple structure, without being accompanied by electric drive etc., and maintenance nature will also improve.

[0014] As for the facility equipment for games of this invention, it is desirable that each aforementioned 2nd branch way which leads to the aforementioned record-medium processing means prepared in the position which counters across the aforementioned 1st passage joins, forms the one 2nd branch way, and is connected to the aforementioned 1st passage. If it does in this way, since the number of the aforementioned 2nd branch way connected to the aforementioned 1st passage decreases and the structure of the facility [itself] can be simplified, the maintenance nature of the facility equipment for games can be improved.

[0015] When it connects possible [signal transfer] mutually and the record-medium processing means of another side is outputting the signal of the purport which is [eccrisis / of a record medium] under processing, as for each aforementioned record-medium processing means by which the facility equipment for games of this invention is connected with the aforementioned 2nd branch way which carries out unification, it is desirable not to discharge a record medium. thus, if it carries out, a record medium will discharge more nearly simultaneous than each record-medium processing meanses of both — having — aforementioned every — it can prevent getting a record medium blocked with the unification section of the 2nd branch way

[0016] As for the facility equipment for games of this invention, it is desirable to prepare a lap dissolution means to cancel the lap of the lap of a coin and a record medium and coin comrade who have the aforementioned 1st passage conveyed, or a record-medium comrade in the upper part regular position of the aforementioned judgment hold section. If it does in this way, every classification of the coin in the aforementioned judgment hold section, a record medium, and a coin can be classified easily and certainly.

[0017] As for the facility equipment for games of this invention, it is desirable for the aforementioned lap dissolution means to have the conveyance way which constitutes the aforementioned 1st passage, and a predetermined gap, to be arranged, and to be formed in the move direction and opposite direction of this conveyance way with the rotation roller by which drive rotation was carried out. If it does in this way, when a coin and a record medium come to pass through this one

gap at a time and about [that a lap is certainly cancelable] and the aforementioned rotation roller carries out drive rotation at the move direction and opposite direction of a conveyance way, neither a coin nor a record medium will produce plugging in the aforementioned gap by enlarging a little from the thickness of the coin which has the aforementioned predetermined gap conveyed, or a record medium.

[0018] As for the facility equipment for games of this invention, it is desirable that the aforementioned rotation roller is a tension roller by which the gap with the aforementioned conveyance way was energized possible [change]. thus — if it carries out — the aforementioned predetermined gap — either a record medium or coin thickness — the lap of both these record media and a coin is cancelable by considering as a bigger thing a little than the thickness of the thinner one

[0019] The aforementioned record medium can be passed in the aforementioned judgment hold section by the facility equipment for games of this invention, and, as for a coin, it is desirable that the judgment way which has the pore of the falling predetermined size is prepared. If it does in this way, judgment with the aforementioned record medium and a coin can be certainly classified by the simple mechanism.

[0020] The aforementioned judgment way is a ramp down which a coin and a record medium can flow, and, as for the facility equipment for games of this invention, it is desirable that the frictional resistance reduction member which reduces frictional resistance is formed in this judgment way front face. thus, the record medium which flows down this judgment way by it not being necessary to establish the mechanism in which movement of a record medium and a coin is performed in judgment, and preparing about [that it becomes possible to simplify the composition of the judgment hold section], and the aforementioned frictional resistance reduction member if it carries out — a judgment on the street — **** — while being able to prevent things, that a blemish etc. reaches the front face of the aforementioned record medium can also prevent

[0021] As for the facility equipment for games of this invention, it is desirable to have an alignment means to align the coin which has the aforementioned 1st passage conveyed by the position corresponding to the arrangement position of the pore in the aforementioned judgment way, in the downstream of the aforementioned lap dissolution means. If it does in this way, in order to supply the pore in the aforementioned judgment way in the state where it aligned without the coin which has the aforementioned 1st passage conveyed lapping, this conveyance coin can be classified certainly.

[0022] As for the facility equipment for games of this invention, it is desirable to provide the coin judgment way which can be classified for every various exceptions for the coin which fell from the aforementioned judgment way based on the outer diameter of this coin. If it does in this way, even if the aforementioned coins are two or more cases where classification existence is recognized, these coins can be classified and collected for every various exceptions, and the effort which the

judgment work of these coins takes can be saved labor.

[0023] counting which carries out counting of recovery number of sheets or the recovery frame based on detection by this sensor while the facility equipment for games of this invention possesses the sensor which performs detection of the classified coin, a bill, and a record medium in the aforementioned judgment hold section — it is desirable to provide a means If it does in this way, the recovery number of sheets or recovery frame of the collected coin, a bill, and a record medium can be grasped serially.

[0024] The aforementioned facility equipment for games is arranged in the game island in which the game machine was installed, and, as for the facility equipment for games of this invention, it is desirable that the aforementioned judgment hold section is contained and arranged inside the aforementioned game island. If it does in this way, the position of the judgment hold section in which the aforementioned judgment hold section projects and bends to the exterior of a game island, and about [that the fine sight of a game island can be improved], the aforementioned recovery coin, and a recovery bill are held from things can be made unclear for a third person, and a theft etc. can be prevented.

[0025]

[Embodiments of the Invention] Hereafter, the operation gestalt of this invention is explained based on a drawing. In addition, in the following examples, although the example using the pachinko machine as a game machine is shown, this invention is not limited to this and can be applied also in game machines, such as other game machines, for example, a slot machine etc.

[0026] Drawing 1 is the appearance perspective diagram showing the game island 1 of this example. (Example) The game island 1 The card unit 3 as equipment for games installed in the both-sides side in the flank position of the pachinko machine 2 as a game machine, and this pachinko machine 2, In the abbreviation center-section lower part position which ***** of is made possible and inserted into the pachinko machine 2 and the card unit 3 of the aforementioned both-sides side inside [game island 1] this The mixed conveyance way 14 as the 1st passage whose conveyance was enabled is established in the one side of this game island in the IC card (prepaid card) and coin which are the record medium discharged from each card unit 3. In game island 1 end face of the conveyance direction of this mixed conveyance way 14 The recovery box 4 where the coin and the card hold section 27 which constitutes the judgment hold section of this invention in the interior have been arranged, It is prepared in the control box 15 equipped with the display with which the number of sheets of the bill collected in the these-collected coin, an IC card, and the below-mentioned bill hold section 146 etc. is displayed, and the form where ** is contained by the game island 1 interior.

[0027] moreover, in the abbreviation center-section upper part position inserted into the pachinko machine 2 and the card unit 3 of the aforementioned both-sides side inside [game island 1] the above The bill conveyance way 100 as the 2nd passage

whose conveyance was enabled is formed in the same direction as the conveyance direction of the aforementioned mixed conveyance way 14 in the bill discharged from each card unit 3. The bill hold section 146 which constitutes the judgment hold section of this invention which collects the bills conveyed on the aforementioned bill conveyance way 100 is formed in the exterior at game island 1 end face of the conveyance direction of this bill conveyance way 100.

[0028] In addition, although it is prepared in this example in the mode to which the bill hold section 146 projects in the method of outside in **** of the game island 1 as shown in drawing 1 this invention is not limited to this and you may make it hold the both sides of aforementioned coin and card hold section 29, and the bill hold section 146 in the interior of the game island 1. by this Each hold section projects and bends to the exterior of the game island 1, from things, the position of the coin, the card hold section 29, and the bill hold section 146 as the judgment hold section in which the coin collected [that the fine sight of the game island 1 can be improved and] and a bill are held can be made unclear for a third person, and a theft etc. can be prevented.

[0029] Moreover, although the coin and the card hold section which classifies and holds separately the coin which had the mixed conveyance way 14 conveyed, and an IC card, the bill hold section 146 which holds the bill which had the bill conveyance way 100 conveyed, and the judgment hold section of a shell this invention consist of this examples That what is necessary is not to limit this invention to this, to classify at least the coin and bill which have been conveyed on the mixed conveyance way 14 and the bill conveyance way 100, and an IC card, and just to be able to hold them now For example, these are constituted as the judgment hold section of one, and you may make it attain ** space-ization of the game island 1 interior.

[0030] If the pachinko machine 2 used for this example and the card unit 3 are explained based on drawing 2 and drawing 3 , to the upper pan prepared in the mode which protrudes on the front face of this pachinko machine 2 The loan button 7 operated when a game person wants to receive a loan, and the return button 6 operated in case a game is ended, The frequency drop 5 which displays the frequency which is the valuable value specified based on the information recorded on the aforementioned IC card, In case frequency exists in **** eclipse ***** and the aforementioned frequency drop 5, it is the common card reader formula pachinko machine with which the pachinko ball of a predetermined number was discharged by the above top pan, and operation of a game of it was enabled using the aforementioned IC card by operating the aforementioned loan button 7.

[0031] In the front face of the aforementioned card unit 3 which is connected with this pachinko machine 2 and installed in the flank position of this pachinko machine 2 The card slot 8 by which insertion of the IC card of the non-contact formula used as a slot for bills 101 and a prepaid card as shown in drawing 3 was enabled, Coin input port 9, the coin return button 10 operated in case thrown-in money is returned, the payment button 11 operated in case additional payment of the invested amount

of money is carried out, the stop button 12 operated in case the stop of this additional payment is carried out, and the return mouth 13 of the coin by which the injection was carried out [aforementioned] are formed. Moreover, the bill discernment unit 102 as a bill processing means which are formed successively by the aforementioned slot for bills 101 and discriminates an injection bill in the interior as shown in drawing 2 and drawing 14 , IC card reader writer 16 as a record-medium processing means in which read-out and the writing of the various information recorded on the aforementioned IC card which are formed successively by the aforementioned card slot 8 and inserted in it are possible, The coin discernment unit 17 as a coin processing means which are formed successively by the aforementioned coin input port 9 and discriminates an injection coin is formed.

[0032] While the aforementioned IC card reader writer 16 reads the information on frequency data etc. in non-contact and displays this frequency on the aforementioned frequency drop 5 from the IC card by which insertion was carried out [aforementioned], this card unit 3 Based on operation of the aforementioned loan button 7, loan processing which subtracts the frequency which outputs a predetermined pulse to the aforementioned pachinko machine 2, and corresponds to this number of loan balls, and indicates the display of the aforementioned frequency drop 5 by updating is carried out so that the pachinko ball of a predetermined number may be lent out. When the frequency read from the aforementioned IC card remains, operation of the additional payment processing which carries out renewal of addition is enabled by throwing in a bill or a coin at the frequency which carries out the aforementioned survival of the frequency based on the amount of money of the this thrown-in bill or a coin.

[0033] IC card reader writer 16 used in the aforementioned this example The guide rail 98 by which it considers as composition as shown in drawing 4 , and was installed by the insertion sensor 97 which detects insertion of the IC card from the aforementioned card slot 8, and the aforementioned card slot 8, and the slide of an IC card was enabled, The conveyance rollers 87 and 88 which are arranged so that this guide rail 98 may be inserted, and carry out movement of this IC card by carrying out drive rotation with drive motors 86 and 93, The conveyance belt 91 laid [firmly] across the one side of the aforementioned conveyance rollers 87 and 88, since -- the electromagnetism which appears the conveyance mechanism which changes, and the stop pin which makes a predetermined position stop the this IC card conveyed frequently -- a solenoid 89 -- While the control board 92 which is connected to the communication head 90 which performs the electric supply and data communication by non-contact [to the IC card stopped in the predetermined position], and aforementioned each part, and carries out the control is formed This IC card reader writer 16 is exposed to the tooth back of the card unit 3, and the card exhaust port 95 which is open for free passage in the aforementioned conveyance mechanism is formed in this exposed surface. Moreover, as shown in drawing 14 , the card branch ways 19 (the 2nd branch way) connected with the

aforementioned mixed conveyance way 14 are formed successively by the aforementioned card exhaust port 95, and it is discharged from the aforementioned card exhaust port 95, and the IC card used as used flows down the card branch way 19 interior of this, it is discharged by the aforementioned mixed conveyance way 14, and 94 in drawing is a free roller with which this transfer is assisted by free rotation. [0034] Although it carries out when the residual frequency of the aforementioned frequency drop 5 is set to "0" from the aforementioned card exhaust port 95 in this example as recovery conditions by which an IC card is discharged (recovery), this invention is not limited to this, and these recovery conditions etc. can be arbitrarily set up so that residual frequency may be set to "0" and it may consider as the progress back of a predetermined time.

[0035] Moreover, in this example, as shown in drawing 2, it considers as the letter of the abbreviation for Y characters, connects with IC card reader writer 16 of the both sides of the card unit 3 stationed in the position which counters across this aforementioned passage, the IC card discharged joins, and the aforementioned card branch way 19 is discharged by the aforementioned mixed conveyance way 14. Each IC card reader writer 16 connected on these same card branch way 19 The control board 92 aforementioned comrade is connected possible [signal transfer] by the signal cable 21. this control board 92 In case an IC card is discharged from the aforementioned card exhaust port 95 Control which outputs a predetermined discharge signal during this discharge at a signal cable 21 while checking that the predetermined discharge signal is not outputted to this signal cable 21 is carried out. It prevents an IC card being discharged simultaneously and getting an IC card blocked in the unification section of the aforementioned card branch way 19 from both IC card reader writers 16.

[0036] Although making it the card branch way 19 join, and doing in this way has the desirable interior of a game island in this example from the ability to prevent complicating by standing close together of the aforementioned card branch way 19 as described above, this invention is not limited to this and you may make it prepare it as individual every card unit 3 like the coin branch way 20 which mentions these card branch way 19 later.

[0037] Moreover, the bill discernment unit 17 used in the aforementioned this example An injection bill discriminates whether it is [of 1000 yen] a tag bill, and in being neither the case where they are bills other than this, nor a regular bill Return this bill from the aforementioned slot for bills 101, and in being a 1000 yen bill bill This bill is stored temporarily, and based on the aforementioned payment button 11 being operated by the game person, from the bill exhaust port 103 (refer to drawing 14) by the side of a tooth back, this bill is discharged and is discharged by the aforementioned bill conveyance way 100 through the bill branch way 104 (the 3rd branch way) formed successively. Moreover, the bill thrown in when a payment button was not operated but the aforementioned stop button 12 was operated is returned from the aforementioned slot for bills 101. Moreover, the aforementioned

bill branch way 104 established in the card unit 3 in the position which counters across the aforementioned bill conveyance way 100 is connected to the same bill conveyance way 100 as shown in drawing 2 .

[0038] Thus, the bill branch way 104 which were formed successively by the card unit 3 which is in the position which corresponds across the bill conveyance way 100 in this example, and was prepared can make the minimum number the bill conveyance way 100 which is connected to the same bill conveyance way 100, and is prepared in the game island 1, structure will become simpler and its maintenance nature of the can also improve.

[0039] Moreover, the coin discernment unit 17 used in the aforementioned this example An injection coin discriminates whether it is [of 500 yen] being [it / a coin] the coin of 100 yen, and in being neither the case where they are coins other than this, nor a regular coin In returning this coin from the aforementioned return mouth 13 through the return path 18, and an injection coin's being a 500 yen coin or being a 100 yen coin Based on the aforementioned payment button 11 being operated by the game person, from the coin exhaust port 105 (refer to drawing 14) by the side of a tooth back, this coin is stored temporarily, and it is discharged, and these coins flow down all over the coin branch way 20 formed successively, and are discharged by the aforementioned mixed conveyance way 14. Moreover, when a payment button is not operated but the aforementioned stop button 12 is operated, an injection coin is returned from the aforementioned return mouth 13. Moreover, the aforementioned coin branch way 20 (the 1st branch way) established in the card unit 3 in the position which counters across the aforementioned mixed conveyance way 14 is connected to the same mixed conveyance way 14 as shown in drawing 2.

[0040] Thus, the coin branch way 20 and the card branch way 19 which were formed successively by the card unit 3 which is in the position which counters across the mixed conveyance way 14 in this example, and was prepared can make the minimum number the mixed conveyance way 14 which is connected to the same mixed conveyance way 14, and is prepared in the game island 1, structure will become simpler and its maintenance nature of the can also improve.

[0041] When the composition of the aforementioned bill conveyance way 100 is explained based on drawing 15 , subsequently, this bill conveyance way 100 Two or more conveyance units 144 which the conveyor belt (illustration abbreviation) which conveys a bill was laid [firmly] across the interior, and were made into predetermined length, The connection unit 141 which the drive motor 145 which drives the conveyor belt of each conveyance unit 144 is formed, and connects each [conveyance unit 144], Shell composition is carried out, these conveyances unit 144 and the connection unit 141 are connected by turns inside the game island 1, and the conveyance way of 1 this letter prolonged in **** from **** is formed.

[0042] Moreover, the aforementioned bill branch way 104 is connected with these connection unit 141 order side, and it is discharged from the bill exhaust port 103 of the aforementioned bill discernment unit 102, and the bill which had the bill branch

way 104 sent out is sent out in the aforementioned conveyance unit 144 in this connection unit 141, and is conveyed in the predetermined **** direction by circulation of the conveyor belt in this conveyance unit 144.

[0043] Moreover, the trailer of the conveyance unit 144 located in the conveyance direction termination of the aforementioned bill conveyance way 100 is connected with the bill hold section 146 which constitutes the judgment hold section of this invention shown in drawing 1, and the bill which has had the bill conveyance way 100 conveyed is collected and held.

[0044] moreover, in the connection part of this bill hold section 146 and the conveyance unit 144 As shown in drawing 1, passage of the bill (this example 1000 yen bill) which the bill sensor 147 is formed and is held in the bill hold section 146 the sensor circuit and I/O Port on the control board by which it was detected by this bill sensor 147, and the detecting signal based on this detection was prepared in the control box 15 interior and which is mentioned later — minding — counting — it is outputted to the control microcomputer (refer to drawing 13) as a means

[0045] When the composition of the mixed 1st conveyance way 14 which was prepared in the game island 1 of this example and which is passage is explained based on drawing 5 and drawing 6, subsequently, in the both ends of the longitudinal direction of the game island 1 The construction roller 27 the drive roller 26 which carries out drive rotation by the drive motor 24 and the timing belt 25, and whose rotation were enabled is formed. The endless-like conveyance belt 23 is laid between this drive roller 26 and the construction roller 27. It is driving in the predetermined direction with the aforementioned drive roller 26 so that this conveyance belt 23 may carry out circulation movement. to the conveyance direction termination side The hole of a predetermined size as shown in drawing 10 The coin and the card hold section 29 which constitutes the judgment hold section of this invention equipped with the card judgment way 30 which classifies classification (they are 500 yen and a 100 yen coin at this example) of the aforementioned IC card, a coin, and a coin, and the coin judgment way 31 from having are formed. 28 in drawing is a guide idler which supports the aforementioned conveyance belt 23, and the operation is controlled by the control microcomputer with which the aforementioned drive motor 24 was formed in the control box 15 interior of the above and which is mentioned later.

[0046] As shown in drawing 6, in this conveyance belt 23 circumference, ***** 22 of the shape of a KO character whose hold of this conveyance belt 23 was enabled is formed, and the IC card and coin which have this conveyance belt 23 top conveyed fall to it.

[0047] The unification section with this mixed conveyance way 14, the aforementioned card branch way 19, and the aforementioned coin branch way 20 It is shown in drawing 7. in the termination lower part of the aforementioned card branch way 19 The unification guide 36 which curved suitably along the move

direction (the conveyance direction) of the aforementioned conveyance belt 23 as a speed regulation means is formed. The shock which joins an IC card is eased by changing the travelling direction of the IC card flowing down in the conveyance direction, and reducing flowing-down speed. Moreover, when the coin flowing down collides, the coin unification unit 35 which has the specification-part material 40 as a flowing-down speed regulation means to reduce the flowing-down speed of this coin and to mitigate the shock to the IC card by flowing down of this coin is formed in the termination lower part of the aforementioned coin branch way 20.

[0048] As mentioned above, what is necessary is not to limit this invention to this in the unification guide 36, although the specification-part material 40 as a flowing-down speed regulation means is formed, and just to be able to regulate an IC card and the flowing-down speed of a coin as a speed regulation means, in this example, as these speed regulation means and a flowing-down speed regulation means.

[0049] The IC card and the various coins which were discharged by these mixture conveyance way 14 Since it is discharged arbitrarily and may be conveyed in the state where it lapped on the aforementioned conveyance belt 23, as this example is shown in drawing 8 The alignment unit 38 which performs alignment of the coin lap dissolution unit 37 which prevents these laps, the card lap dissolution unit 39, and the coin conveyed is formed in the upper section position of the aforementioned coin and card hold section 29.

[0050] This coin lap dissolution unit 37 between the upper surfaces of the conveyance belt 23 which moves in the ***** 22 interior of the above It has the drive motor 42 driven so that the roller 41 arranged so that the predetermined gap through which a coin and one 100 yen coin can pass may be formed may be rotated to the aforementioned conveyance direction and an opposite direction. The coin in the state where it lapped with an IC card or other coins by being eliminated in contact with the aforementioned roller 41 Anchoring in the arbitrary positions of ***** 22 is enabled by electrode-holder 37' which the lap of an IC card, a coin and a coin, and a coin is canceled, and surrounds aforementioned ***** 22.

[0051] Each coin in which these laps were canceled between the soffit section and the upper surfaces of the aforementioned conveyance belt 23 The alignment board 43 formed so that it might have the predetermined gap which can contact a coin although it could pass without contacting an IC card By the aforementioned alignment unit 38 of the conveyance belt 23 prepared by having the predetermined angle which can change the course so that it might align in the center section mostly, the contacting coin is aligned on 1 train in the simultaneously center section of the conveyance belt.

[0052] Moreover, although the card lap dissolution unit 39 prepared in the downstream of this alignment unit 38 is considered as the almost same composition as the aforementioned coin lap dissolution unit 37 The roll formed in this card lap dissolution unit 39 It considers as the flange roller 44 with which an opening which does not contact the coin which aligned in the aforementioned center section in the

center section was prepared. The gap of the roller side and the conveyance belt 23 in the both ends of this flange roller 44. When the IC card is made into the predetermined thickness which can be passed one sheet and this flange roller 44 carries out drive rotation with a drive motor 45 at the conveyance direction and an opposite direction. In contact with the aforementioned flange roller 44, only a lower IC card comes to pass [the IC card of an overlapping top] the flange roller 44, and the lap of an IC card is canceled. moreover — the above — alignment — a unit — 38 — and — a card — a lap — a dissolution — a unit — 39 — the above — a coin — a lap — a dissolution — a unit — 37 — the same — the above — ***** — 22 — surrounding — a electrode holder — 38 — ' — 39 — ' — ***** — 22 — being arbitrary — a position — anchoring — being possible — ** — carrying out — having — **** — while — the above —

[0053] Although it is desirable to cancel each [these] lap from the ability to both carry out the counting now certainly as if for every judgment with the IC card and coin which are mentioned later, and classification of a coin to be classified certainly and easily, this invention is not limited to this, and depending on the judgment method, you may not be made to make these laps prevention into either, or not to carry it out suitably.

[0054] Moreover, although the lap of an IC card and a coin is carried out in this example in the individual card lap dissolution unit 39 and the coin lap dissolution unit 37 as described above. As this invention is not limited to this and shown in drawing 16, the roller 65 arranged in the aforementioned conveyance belt upper surface and a predetermined gap. Support to revolve to the slide board 69 energized below by the member 70, and it considers as a tension roller. while a slide in the vertical direction is enabled — energization of a spring etc. — It is made to make the conveyance direction and an opposite direction rotate this by the timing belt 67 with a drive motor 66. It may be made to make cancelable the lap of the IC card and coin in which thickness differs in the same unit, and you may make it cancel the lap of an IC card, a coin and an IC card, and a coin by the other methods. In addition, 68 in drawing is an adjustment roller which adjusts the flare of the timing belt 67 accompanying vertical movement of a roller 65.

[0055] Thus, the coin and IC card by which the lap was canceled are conveyed and supplied to the coin and the card hold section 29 shown in drawing 9. The coin judgment way 31 is established in the lower position of the card judgment way 30 as shown in drawing 10 in the form formed successively in this coin and card hold section 29 at the trailer of the aforementioned conveyance belt 23, and this card judgment way 30. After the IC card which passed through this card judgment way 30 passed the card sensor 47 and was detected, The 500 yen coin which was held in the card recovery box 32 and classified on the aforementioned coin judgment way 31, and a 100 yen coin. Each [guide 33' and / which are held in the coin recovery box 33 and the 100 yen coin recovery box 34 through 34', and are this held] coin is detected by the coin sensors 48 and 49 formed in aforementioned guide 33' and 34'.

[of 500 yen] Moreover, the aforementioned card recovery box box [coin recovery] coin recovery box 34 of 33,100 yen of 32,500 yen is held in the recovery box 4 interior of the above possible [ejection], as shown in drawing 11 .

[0056] As shown in drawing 10 , it is formed in the ramp almost equivalent to the width of face of the aforementioned conveyance belt 23, and the slide section on which the Teflon (registered trademark) sheet 50 as a frictional resistance reduction member was stuck is prepared in the both-sides section, in the IC card supplied from the aforementioned conveyance belt 23, this slide section top is slid and the aforementioned card judgment way 30 used for the aforementioned this example passes this card judgment way 30. Moreover, the pore 46 of the size by which fall of the coin of 100 yen and 500 yen both sides was enabled is formed in the ramp mid gear between the aforementioned slide sections, and the coin which aligned in the aforementioned alignment unit 38 at the mid gear of the conveyance belt 23 is supplied to the coin judgment way 31 which fell from this pore 46 and has been arranged at the card judgment way 30 lower part.

[0057] While this coin judgment way 31 is considered as the composition in which the flowing-down guides 51a and 51b which lead a coin to the judgment pore 52 were formed on the plate 53 which inclined at the predetermined angle, inclination arrangement of the aforementioned plate 53 is carried out at the flowing-down guide 51b side so that the coin flowing down may flow down in contact with flowing-down guide 51b. Moreover, the aforementioned judgment pore 52 is made into the size in which only the 100 yen coin of a minor diameter falls, without the 500 yen coin of a major diameter falling. Contacting the aforementioned flowing-down guide 51b, the coin which fell from the aforementioned pore 46 and was supplied to the coin judgment way 31 flows down on a plate 53, is supplied to the aforementioned judgment pore 52, and only a coin falls from the aforementioned judgment pore 52 100 yen, and it is classified with a coin. [of 500 yen]

[0058] as mentioned above, the card judgment way 30 -- setting -- frictional resistance reduction -- sticking the Teflon sheet 50 which is a member While it is prevented that an IC card piles up on this card judgment way 30 That a blemish etc. cannot be easily attached to this IC card front face, although it is desirable from a bird clapper, this invention is not limited to the aforementioned Teflon sheet 50, a nylon sheet etc. is sufficient, for example, especially if reduction of friction is possible for these frictional resistance reduction member, it will not be limited.

[0059] As the IC card and the various coins which were these-classified are detected by the aforementioned card sensor 47 and the coin sensors 48 and 49 and this detecting signal shows them to drawing 13 the sensor circuit and I/O Port on the control board prepared in the control box 15 interior of the above -- minding -- counting, as it is outputted to the control microcomputer as a means, addition counting of each recovery number of sheets is carried out with this control microcomputer and it is shown in drawing 12 It is displayed on the card number-of-sheets drop ball number-of-sheets drop 58 of 58,100

yen of 57,500 yen on the control panel formed in the interior of this control box 15 through a display circuit.

[0060] moreover, on the control microcomputer in the aforementioned control box As shown in drawing 13 , the detecting signal based on passage of a 1000 yen bill bill by the above-mentioned bill sensor 147 is outputted through the aforementioned sensor circuit and an I/O Port. Addition counting of the recovery number of sheets of the bill collected in the bill hold section 146 with this control microcomputer is carried out, and as shown in drawing 12 , it is displayed on the 1000 yen bill number-of-sheets drop 148 on the aforementioned control panel through a display circuit.

[0061] Thus, it is desirable in it being possible to check the amount of recoveries serially to display the number of sheets of the IC card collected by each aforementioned drop, the number of sheets of various coins, and the number of sheets of a 1000 yen bill bill from a bird clapper, and it collects data, such as these recovery number of sheets, by communication to a management computer etc., concentrates the recovery situation in each game island, and you may make it manage. moreover -- this example -- counting -- that by which this invention is limited to this although the aforementioned control microcomputer is used as a means -- it is not -- these counting -- a means adds the output from each aforementioned sensor, the recovery number of sheets is not limited especially if counting is possible for it, and especially if detection of this IC card and a coin is possible also for each sensor which performs detection of the aforementioned IC card or a coin further, it will not be limited, either Moreover, although the number of sheets collected by the aforementioned drop is displayed in the aforementioned this example, the multiplication of the amount of money of a coin is carried out to these number of sheets, and the amount of money may be made to be displayed.

[0062] As shown in drawing 12 , moreover, to the aforementioned control panel The operation button 55 which makes operation of the drive motors 42 and 45 formed in the drive motor 24 and each aforementioned lap dissolution units 37 and 39 which drive the aforementioned conveyance belt start, While the unusual lamp 56 turned on at the time of a certain abnormalities is formed So that it may be easy to operate it at the time of the ejection of each aforementioned recovery boxes 32, 33, and 34 The operation lamp 63 which reports that the light is switched on by operating the earth switch 62 and the aforementioned operation button 55 which are made to stop operation of each aforementioned drive motors 24, 42, and 45 in the form exposed to the recovery box 4 interior of the above, and it is in an operation situation is formed. These each part is connected to the control microcomputer through the I/O Port, as shown in drawing 13 , and this control microcomputer carries out counting of the IC card and coin of these each part by which control and the aforementioned recovery were carried out, or a bill based on the control program memorized by ROM. In addition, 61 in drawing 12 is a power supply breaker, and 60 is a line indicator turned on when it acts as powering on with this power supply breaker.

[0063] As mentioned above, the coin collected from the card unit 3 when carrying

out like this example, The conveyance way which conveys a bill and an IC card (prepaid card) in the judgment hold section which consists of the bill hold section 146, and a coin and the card hold section 29 Even if an obstacle occurs temporarily from being formed on the mixed conveyance way 14 which carries out mixture conveyance of a coin and the IC card, and the individual conveyance way of the bill conveyance way 100 which conveys only a bill Since recovery by the other side is possible, the damage of the amusement center accompanying these obstacles can be suppressed to the minimum.

[0064] Each element in each aforementioned example corresponds as follows to this invention.

[0065] While the claim 1 of this invention discriminates the received coin and performs predetermined processing accompanying the size of the coin value While discriminating the received bill from a coin processing means (coin discernment unit 17) to discharge this discernment coin outside and performing predetermined processing accompanying the size of the bill value A bill processing means to discharge this discernment bill outside (bill discernment unit 102), While performing processing (loan processing) for making the size of the valuable value (frequency) specified from this recording information by reading at least the information currently recorded on the receptionist beam record medium use it for a game A record-medium processing means to discharge the aforementioned receptionist beam record medium (IC card (prepaid card)) outside based on formation of predetermined recovery conditions (IC card reader writer 16), It is prepared in the equipment for ***** (card unit 3), this equipment for games (card unit 3), and the distant predetermined position. The judgment hold section which classifies individually the coin, bill, and record medium (IC card (prepaid card)) by which discharge was carried out [aforementioned], and holds them (the bill hold section 146, a coin and the card hold section 29), The aforementioned coin processing means The 1st passage for carrying out mixture conveyance of the record medium (IC card (prepaid card)) discharged from the coin and the aforementioned record-medium processing means (IC card reader writer 16) which are discharged from (the coin discernment unit 17) at the aforementioned judgment hold section (a coin and card hold section 29) (The mixed conveyance way 14) and the 2nd passage (bill conveyance way 100) for conveying the bill discharged from the aforementioned bill processing means (bill discernment unit 102) to the aforementioned judgment hold section (bill hold section 146), The 1st branch way which connects the aforementioned coin processing means (coin discernment unit 17) and the aforementioned 1st passage (mixed conveyance way 14) so that the aforementioned discharge coin may join the aforementioned 1st passage (mixed conveyance way 14) (coin branch way 20), The 2nd branch way which connects the aforementioned record-medium processing means (IC card reader writer 16) and the aforementioned 1st passage (mixed conveyance way 14) so that the aforementioned discharge record medium (IC card (prepaid card)) may join the aforementioned 1st passage

(mixed conveyance way 14) (card branch way 19), the 3rd branch way (bill branch way 104) which connects the aforementioned bill processing means (bill discernment unit 102) and the aforementioned 2nd passage (bill conveyance way 100) so that the aforementioned discharge bill may join the aforementioned 2nd passage (bill conveyance way 100) -- since -- it changes

[0066] Each branch way (the coin branch way 20, the card branch way 19, bill branch way 104) of the aforementioned equipment for games (card unit 3) established in the position where the claim 2 of this invention counters across each of this aforementioned passage (the mixed conveyance way 14, bill conveyance way 100) is connected to this same corresponding passage (the mixed conveyance way 14, bill conveyance way 100) for each branch way.

[0067] The claim 3 of this invention possesses a speed regulation means (unification guide 36) to regulate the unification speed to the aforementioned 1st passage (mixed conveyance way 14) of this record medium (IC card (prepaid card)) while the aforementioned 2nd branch way (card branch way 19) is formed possible [flowing down of the aforementioned eccrisis record medium (IC card (prepaid card))].

[0068] The claim 4 of this invention is formed because the aforementioned speed regulation means (unification guide 36) incurvates suitably a unification section configuration with the aforementioned 1st passage (mixed conveyance way 14) of the aforementioned 2nd branch way (card branch way 19) along the conveyance direction of the aforementioned 1st passage (mixed conveyance way 14).

[0069] The claim 5 of this invention possesses a flowing-down speed regulation means (coin unification unit 35) to regulate the flowing-down speed of this coin while the aforementioned 1st branch way (coin branch way 20) is formed possible [flowing down of the aforementioned eccrisis coin].

[0070] The claim 6 of this invention is formed for the aforementioned flowing-down speed regulation means (coin unification unit 35) by the specification-part material 40 by which the coin which flows down in the unification section with the aforementioned 1st passage (mixed conveyance way 14) of the aforementioned 1st branch way (coin branch way 20) has been arranged possible [a collision].

[0071] aforementioned every which leads to the aforementioned record-medium processing means (IC card reader writer 16) prepared in the position where the claim 7 of this invention counters across the aforementioned 1st passage (mixed conveyance way 14) -- the 2nd branch way joins, forms the one 2nd branch way (card branch way 19), and is connected to the aforementioned 1st passage (mixed conveyance way 14)

[0072] Each aforementioned record-medium processing means (IC card reader writer 16) by which the claim 8 of this invention is connected with the aforementioned 2nd branch way (card branch way 19) which carries out unification is connected possible [signal transfer] mutually, and when outputting the signal of the purport which the record-medium processing means (IC card reader writer 16) of another side is eccrisis [of a record medium (IC card (prepaid card))] processing, a

record medium (IC card (prepaid card)) is not discharged.

[0073] The claim 9 of this invention prepares a lap dissolution means (the coin lap dissolution unit 37, card lap dissolution unit 39) to cancel the lap of the lap of a coin and a record medium (IC card (prepaid card)) and coin comrade who have the aforementioned 1st passage (mixed conveyance way 14) conveyed, or a record-medium (IC card (prepaid card)) comrade in the upper part regular position of the aforementioned judgment hold section (a coin and card hold section 29).

[0074] It has the conveyance way (conveyance belt 23) which constitutes the aforementioned 1st passage (mixed conveyance way 14), and a predetermined gap, the aforementioned lap dissolution means (the coin lap dissolution unit 37, card lap dissolution unit 39) is arranged, and the claim 10 of this invention is formed in the move direction and opposite direction of this conveyance way (conveyance belt 23) with the rotation roller (a roller 41, flange roller 44) by which drive rotation was carried out.

[0075] The claim 11 of this invention is the tension roller 65 by which the aforementioned rotation roller (a roller 41, flange roller 44) was energized possible [change of a gap with the aforementioned conveyance way (conveyance belt 23)].

[0076] In the aforementioned judgment hold section (a coin and card hold section 29), the aforementioned record medium (IC card (prepaid card)) can be passed, and, as for the claim 12 of this invention, the judgment way (card judgment way 30) which has the pore 46 of the predetermined size in which a coin falls is prepared.

[0077] The claim 13 of this invention is the ramp to which a coin and a record medium (IC card (prepaid card)) can flow down the aforementioned judgment way (card judgment way 30), and the frictional resistance reduction member (Teflon sheet 50) which reduces frictional resistance is formed in this judgment way (card judgment way 30) front face.

[0078] The claim 14 of this invention has an alignment means (alignment unit 38) to align the coin which has the aforementioned 1st passage (mixed conveyance way 14) conveyed by the position corresponding to the arrangement position of the pore 46 in the aforementioned judgment way (card judgment way 30), in the downstream of the aforementioned lap dissolution means (the coin lap dissolution unit 37, card lap dissolution unit 39).

[0079] The claim 15 of this invention possesses the coin judgment way 31 which can be classified for every various exceptions based on the outer diameter of this coin for the coin which fell from the aforementioned judgment way (card judgment way 30).

[0080] The coin in which the claim 16 of this invention was classified, While providing the sensor (the card sensor 47, the coin sensors 48 and 49, bill sensor 147) which performs detection of a bill and a record medium (IC card (prepaid card)) in the aforementioned judgment hold section (the bill hold section 146, a coin and the card hold section 29) counting which carries out counting of recovery number of sheets or the recovery frame based on detection by this sensor (the card sensor 47, the

coin sensors 48 and 49, bill sensor 147) — a means (control microcomputer) is provided

[0081] The claim 17 of this invention is arranged in the game island 1 in which the game machine (pachinko machine 2) was installed, and the aforementioned judgment hold section (a coin and card hold section 29) is contained inside [game island 1] the above, and it is arranged.

[0082] In addition, as predetermined processing of the coin processing means in the aforementioned claim, and a bill processing means, the additional payment processing based on the injection coin or bill in the aforementioned example corresponds.

[0083] Moreover, although it carries out when residual frequency is set to "0" in the aforementioned example as predetermined recovery conditions in the aforementioned claim [when the acquisition valuable value that the aforementioned record medium was gained in the game is recordable] What is necessary is just to determine suitably the case where this acquisition valuable value is "0" according to the content of recovery conditions, then the information good and recorded on a record medium as these recovery conditions etc., while the aforementioned residual frequency is "0."

[0084] As mentioned above, although the aforementioned example has explained the operation gestalt of this invention with the drawing, even if this invention has the change and the addition in the range which is not limited to these examples and does not deviate from the main point of this invention, being contained in this invention cannot be overemphasized.

[0085] For example, although only the tag of 1000 yen is received in the bill discernment unit 16, it is good also as a receptionist of other bills, such as a 2000 yen bill bill, a 5000 yen bill bill, and a 10000 yen bill bill, being possible, and may still be made not to limit this invention to this, and to enable a receptionist of two or more of these sorts of bills in the aforementioned example.

[0086] Moreover, what is necessary is not to limit this invention to this and for mixture conveyance of the aforementioned record medium and money to be just possible for it as a mechanism of these book passage, although the mixed conveyance way 14 is formed by the conveyance belt 23 and ***** 22 in the aforementioned example.

[0087] Moreover, this invention is not limited to this and the aforementioned card branch way 20 and its coin branch way 19 are mechanically good in these record media or money also as what can be conveyed, although it considers as that down which the IC card which is a record medium, and a coin can flow.

[0088] Moreover, although the frequency as valuable value is recorded on the IC card which is a record medium, these frequencies are read and loan processing is carried out in the aforementioned example this invention is not limited to this and records identification codes, such as ID beforehand given to the aforementioned IC card. By matching with this identification code (ID), registering valuable value, such

as frequency, into a management computer etc., and reading the aforementioned identification code (ID) May make it specify the valuable value registered into the aforementioned management computer etc., and Valuable value is registered and recorded on the both sides of these management computers and an IC card for the improvement in security, and the data of these both sides are compared at the time of use, and you may make it prevent injustice.

[0089] Moreover, although non-contact IC card 37 is used as a record medium in the aforementioned example this invention is not what is limited to this. make this into a contacted type IC card, or In specifying valuable value still as mentioned above, it being good also as a magnetic card and using an identification code (ID) Predetermined information record symbols, such as a bar code, etc. may be the media printed possible [reading] that what is necessary is just what can record at least information, such as ID which is the aforementioned identification information which can specify a record medium, possible [reading].

[0090] Moreover, although the IC card whose aforementioned card unit 3 is a prepaid card in the aforementioned example is inserted and loan processing is made, this invention may not be limited to this, and it may be the record medium in which **** of the aforementioned IC card, such as a member card, are possible, and you may also be that the game which uses these **** data again was played possible.

[0091] Moreover, although the reader writer which can be written in as a record-medium processing means is used in the aforementioned example in order to record new residual frequency on the IC card by which insertion is carried out [aforementioned], when residual frequency exists in the aforementioned frequency drop 5 and the aforementioned return button 6 is operated, this invention is not limited to this, reads these record-media processing means, and is good also as a thing of exclusive use.

[0092] Moreover, although each aforementioned judgment ways 30 and 31 are used, this invention is not limited to this and you may make it use other methods, equipment, etc. as these judgment means in the aforementioned example as a judgment means in aforementioned coin and card hold section 29.

[0093] Moreover, what is necessary is for this invention not to be limited to this and to make it make it in agreement with the amount of money so that a game person can grasp the valuable value for these games in money, to be good also considering the valuable value for these games as the point, the predetermined, corresponding number of pachinko balls, and the predetermined number of coin, and just to choose the form arbitrarily further, in the aforementioned example, although frequency is used as a form of the valuable value for games.

[0094] Moreover, in the aforementioned example, although the pachinko ball is used as a game medium, if these game medium is a medium used [in / a game / it is good also as the pachinko ball formed by the picture / in / coin, mark, a pachinko machine a slot machine of a picture formula that are mentioned further later etc. / for these game medium], coin, etc., and], it will not be contained in the game medium of this

invention, and the form will not be limited

[0095] Moreover, although the usual pachinko machine 2 which the pachinko ball which is a game medium as a game machine pays out outside is used in the aforementioned example The slot machine which performs a game not only using a pachinko machine usual [these] in this invention but using coin, Without discharging a pachinko ball and coin outside The pachinko machine and slot machine of a filled system in which a game is possible, With data etc., without furthermore using these game medium The game machine in which a game is possible, To say nothing of the ability to apply to the pachinko machine of the picture formula as which the game board and a pachinko ball are displayed by the picture, and the slot machine of a picture formula with which a reel is displayed by the picture, either, these game machine is not limited.

[0096]

[Effect of the Invention] this invention does the following effect so.

[0097] (a) The coin which were collected from the aforementioned equipment for games according to invention of a claim 1, Since this passage which conveys a bill and a record medium in the aforementioned judgment hold section is formed in the 1st passage which carries out mixture conveyance of a coin and the record medium, and this passage where the 2nd passage which conveys only a bill is individual Since recovery by the other side is possible even if an obstacle occurs temporarily, the damage of the amusement center accompanying these obstacles can be suppressed to the minimum.

[0098] (b) According to invention of a claim 2, the number of each of these needed passage can be made into the minimum, and the structure of equipment will become simpler and the maintenance nature's can improve.

[0099] (c) According to invention of a claim 3, the aforementioned record medium can prevent joining the aforementioned 1st passage and damaging at too much speed.

[0100] (d) According to invention of a claim 4, in the unification to about [that the aforementioned speed regulation means can be formed with simple structure] and the 1st passage, the aforementioned record medium does not produce plugging in conveyance in the 1st passage, without being accompanied by electric drive etc.

[0101] (e) According to invention of a claim 5, the aforementioned discharge coin can prevent breakage of this record medium by colliding with the aforementioned record medium which has the aforementioned 1st passage conveyed at too much speed.

[0102] (f) According to invention of a claim 6, the aforementioned flowing-down speed regulation means can be formed with simple structure, without being accompanied by electric drive etc., and maintenance nature also improves.

[0103] (g) Since according to invention of a claim 7 the number of the aforementioned 2nd branch way connected to the aforementioned 1st passage decreases and the structure of the facility [itself] can be simplified, the

maintenance nature of the facility equipment for games can be improved.

[0104] (h) according to invention of a claim 8, a record medium discharges more nearly simultaneous than each record-medium processing meanses of both — having — aforementioned every — it can prevent getting a record medium blocked with the unification section of the 2nd branch way

[0105] (i) According to invention of a claim 9, every classification of the coin in the aforementioned judgment hold section, a record medium, and a coin can be classified easily and certainly.

[0106] (j) According to invention of a claim 10, by enlarging a little from the thickness of the coin which has the aforementioned predetermined gap conveyed, or a record medium, when a coin and a record medium come to pass through this one gap at a time and about [that a lap is certainly cancelable] and the aforementioned rotation roller carries out drive rotation at the move direction and opposite direction of a conveyance way, neither a coin nor a record medium produces plugging in the aforementioned gap.

[0107] (k) according to invention of a claim 11 — the aforementioned predetermined gap — either a record medium or coin thickness — the lap of both these record media and a coin is cancelable by considering as a bigger thing a little than the thickness of the thinner one

[0108] (l) According to invention of a claim 12, judgment with the aforementioned record medium and a coin can be certainly classified by the simple mechanism.

[0109] (m) the record medium which flows down this judgment way by it not being necessary to establish the mechanism in which movement of a record medium and a coin is performed in judgment, and preparing about [that it becomes possible to simplify the composition of the judgment hold section], and the aforementioned frictional resistance reduction member according to invention of a claim 13 — a judgment on the street — **** — while being able to prevent things, that a blemish etc. reaches the front face of the aforementioned record medium can also prevent

[0110] (n) In order to supply the pore in the aforementioned judgment way in the state where it aligned without the coin which has the aforementioned 1st passage conveyed lapping according to invention of a claim 14, this conveyance coin can be classified certainly.

[0111] (o) According to invention of a claim 15, even if the aforementioned coins are two or more cases where classification existence is recognized, these coins can be classified and collected for every various exceptions, and the effort which the judgment work of these coins takes can be saved labor.

[0112] (p) According to invention of a claim 16, the recovery number of sheets or recovery frame of the collected coin, a bill, and a record medium can be grasped serially.

[0113] (q) According to invention of a claim 17, the position of the judgment hold section in which the aforementioned judgment hold section projects and bends to the exterior of a game island, and about [that the fine sight of a game island can be

improved], the aforementioned recovery coin, and a recovery bill are held from things can be made unclear for a third person, and a theft etc. can be prevented.

[Translation done.]

*** NOTICES ***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.

2.**** shows the word which can not be translated.

3.In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the perspective diagram showing the game island in the example of this invention.

[Drawing 2] It is the perspective diagram showing the internal structure of the game island in the example of this invention.

[Drawing 3] It is the front view showing the pachinko machine used in the example of this invention, and a card unit.

[Drawing 4] It is the cross section showing the composition of IC card reader writer used for the card unit in the example of this invention.

[Drawing 5] It is the ***** type view showing the composition of the mixed conveyance way in the example of this invention, and the coin and the card hold section.

[Drawing 6] It is a cross-section A-A cross section in drawing 5 .

[Drawing 7] It is the perspective diagram showing the unification section of the mixed conveyance way and each branch way in the example of this invention.

[Drawing 8] It is the perspective diagram showing each lap dissolution unit and alignment unit in an example of this invention.

[Drawing 9] It is the perspective diagram showing the coin and the card hold section in the example of this invention.

[Drawing 10] It is the perspective diagram showing each judgment way used for a coin and the card hold section in the example of this invention.

[Drawing 11] It is drawing showing the internal situation of the recovery box in the example of this invention.

[Drawing 12] It is drawing showing the control panel formed in the interior of the

control box in the example of this invention.

[Drawing 13] It is the block diagram showing the connection situation of the various devices in the example of this invention.

[Drawing 14] It is the cross section showing a connection situation with the card unit, the bill conveyance way, and the mixed conveyance way in the example of this invention.

[Drawing 15] It is the cross section showing a connection situation with the card unit, the bill conveyance way, and the mixed conveyance way in the example of this invention.

[Drawing 16] It is the perspective diagram showing the tension roller as a gestalt of others of the lap dissolution means in the example of this invention.

[Description of Notations]

- 1 Game Island
- 2 Pachinko Machine
- 3 Card Unit (Equipment for Games)
- 4 Recovery Box
- 5 Frequency Drop
- 6 Return Button
- 7 Loan Button
- 8 Card Slot
- 9 Coin Input Port
- 10 Coin Return Button
- 11 Payment Button
- 12 Stop Button
- 13 Return Mouth
- 14 Mixed Conveyance Way (1st Passage)
- 15 Control Box
- 16 IC Card Reader Writer (Record-Medium Processing Means)
- 17 Coin Discernment Unit (Coin Processing Means)
- 18 Return Path
- 19 Card Branch Way (2nd Branch Way)
- 20 Coin Branch Way (1st Branch Way)
- 21 Signal Cable
- 22 *****
- 23 Conveyance Belt (Conveyance Way)
- 24 Drive Motor
- 25 Timing Belt
- 26 Drive Roller
- 27 Construction Roller
- 28 Guide Idler
- 29 Coin and Card Hold Section (Judgment Hold Section)
- 30 Card Judgment Way (Judgment Way)

31 Coin Judgment Way
32 Card Recovery Box
33 500 Yen Coin Recovery Box
33' Guide
34 100 Yen Coin Recovery Box
34' Guide
35 Coin Unification Unit (Flowing-Down Speed Regulation Means)
36 Unification Guide (Speed Regulation Means)
37 Coin Lap Dissolution Unit (Lap Dissolution Means)
37' Electrode holder
38 Alignment Unit (Alignment Means)
38' Electrode holder
39 Card Lap Dissolution Unit (Lap Dissolution Means)
39' Electrode holder
40 Specification-Part Material
41 Roller (Rotation Roller)
42 Drive Motor
43 Alignment Board
44 Flange Roller (Rotation Roller)
45 Drive Motor
46 Pore
47 Card Sensor (Sensor)
48 Coin Sensor (500 Yen) (Sensor)
49 Coin Sensor (100 Yen) (Sensor)
50 Teflon Sheet (Frictional Resistance Reduction Member)
51a Flowing-down guide
51b Flowing-down guide
52 Judgment Pore
53 Plate
55 Operation Button
56 Unusual Lamp
57 Card Number-of-Sheets Drop
58 500 Yen Ball Number-of-Sheets Drop
59 100 Yen Ball Number-of-Sheets Drop
60 Line Indicator
61 Power Supply Breaker
62 Earth Switch
63 Operation Lamp
65 Roller
66 Drive Motor
67 Timing Belt
68 Adjustment Roller

69 Slide Board
70 Energization — Member
86 Drive Motor
87 Conveyance Roller
88 Conveyance Roller
89 Electromagnetism — Solenoid
90 Communication Head
91 Conveyance Belt
92 Control Board
93 Drive Motor
94 Free Roller
95 Exhaust Port
97 Insertion Sensor
98 Guide Rail
100 Bill Conveyance Way (2nd Passage)
101 Slot for Bills
102 Bill Discernment Unit (Bill Processing Means)
103 Bill Exhaust Port
104 Bill Branch Way (3rd Branch Way)
105 Coin Exhaust Port
141 Connection Unit
144 Conveyance Unit
145 Drive Motor
146 Bill Hold Section (Judgment Hold Section)
147 Bill Sensor (Sensor)
148 1000 Yen Bill Number-of-Sheets Drop

[Translation done.]

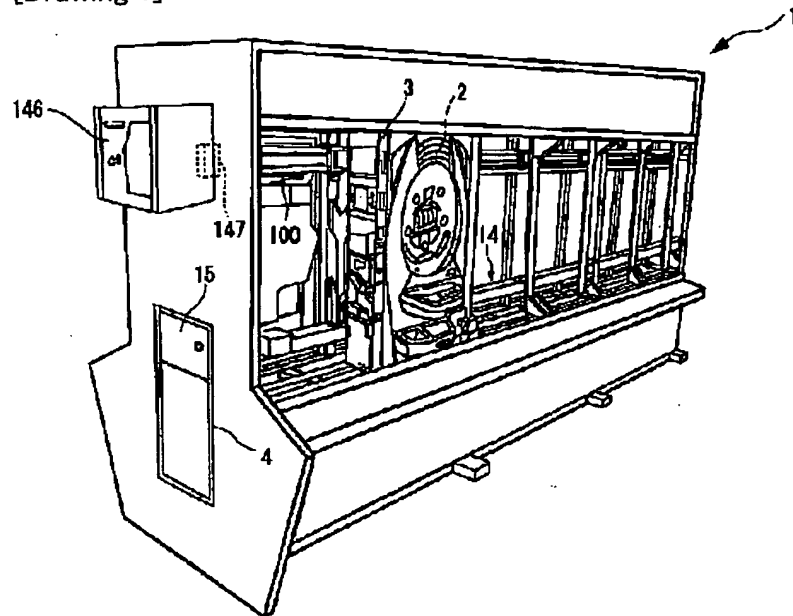
*** NOTICES ***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

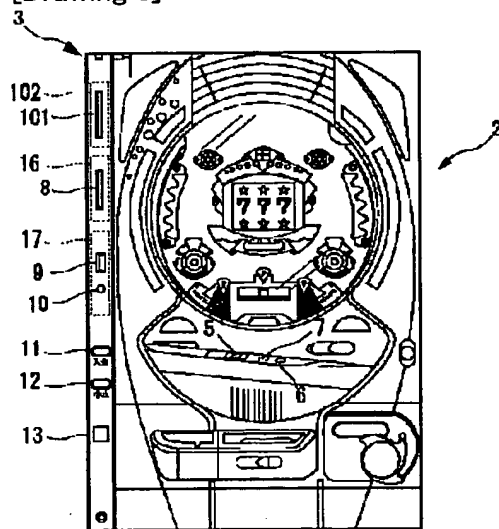
- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DRAWINGS

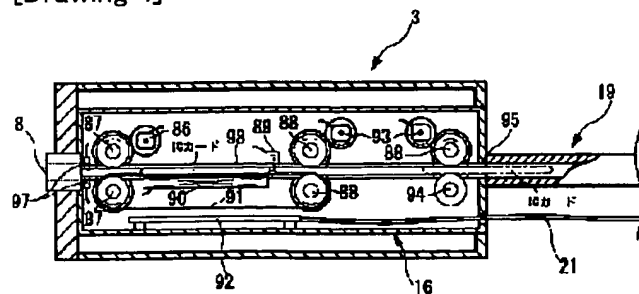
[Drawing 1]



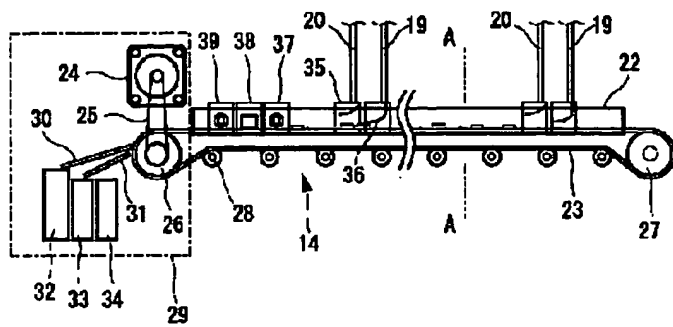
[Drawing 3]



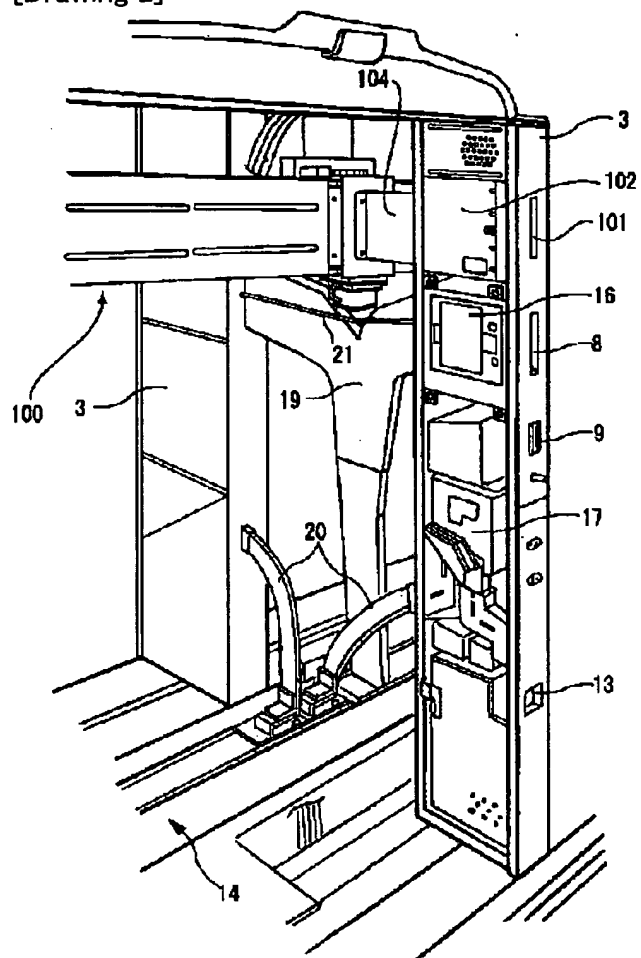
[Drawing 4]



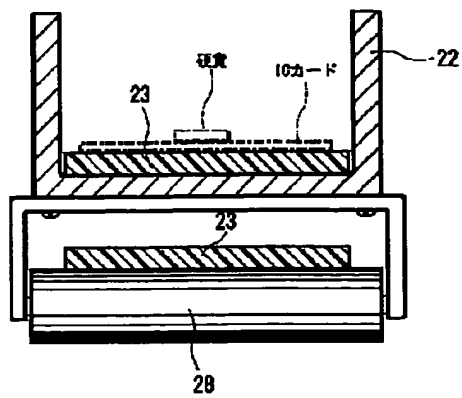
[Drawing 5]



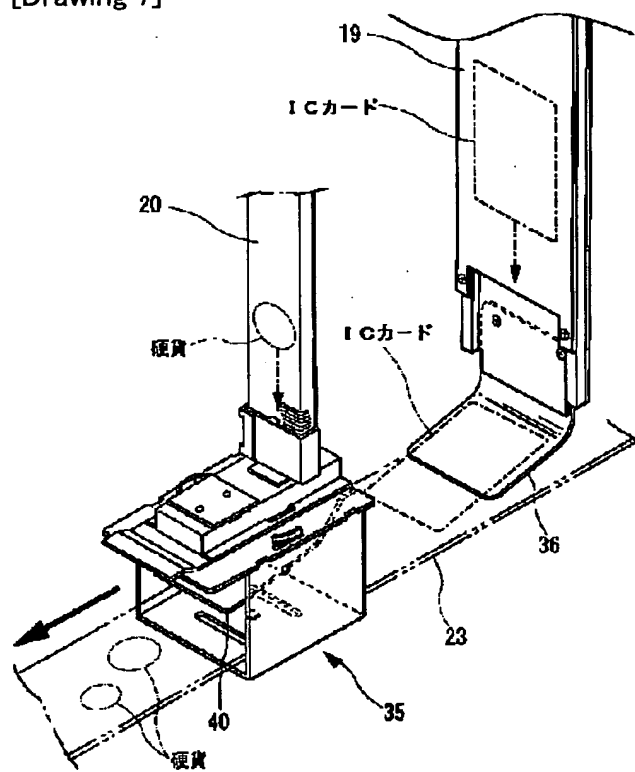
[Drawing 2]



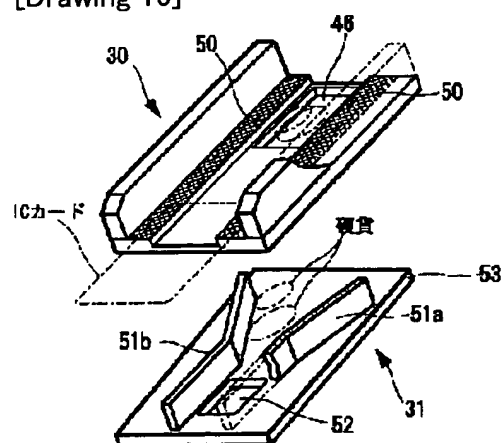
[Drawing 6]



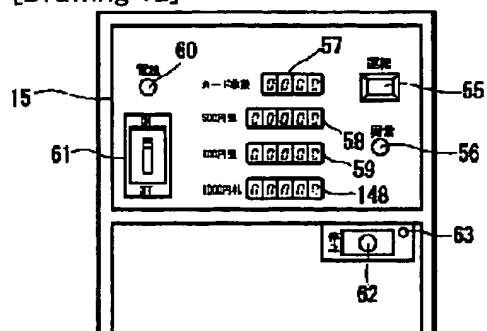
[Drawing 7]



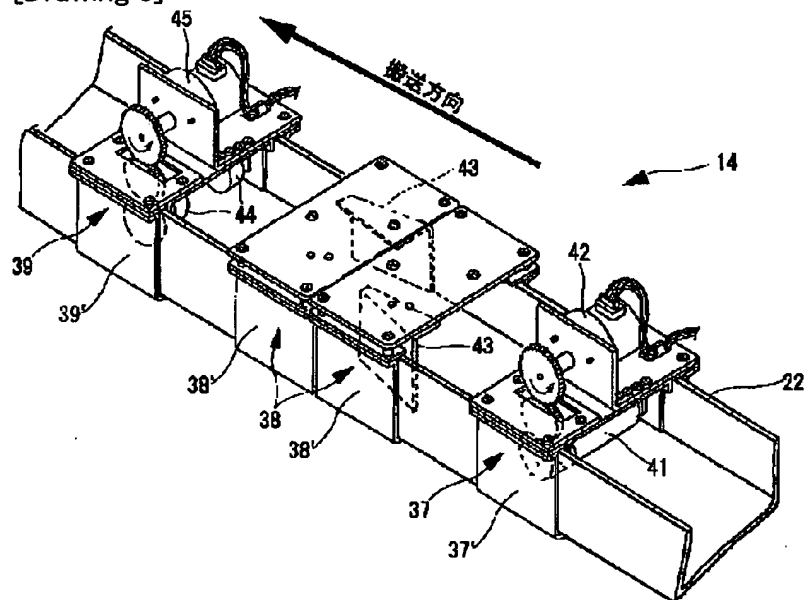
[Drawing 10]



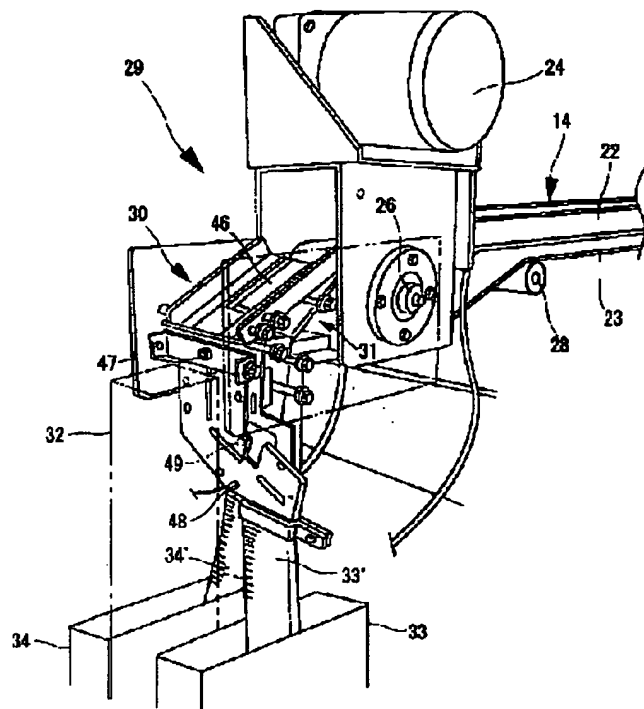
[Drawing 12]



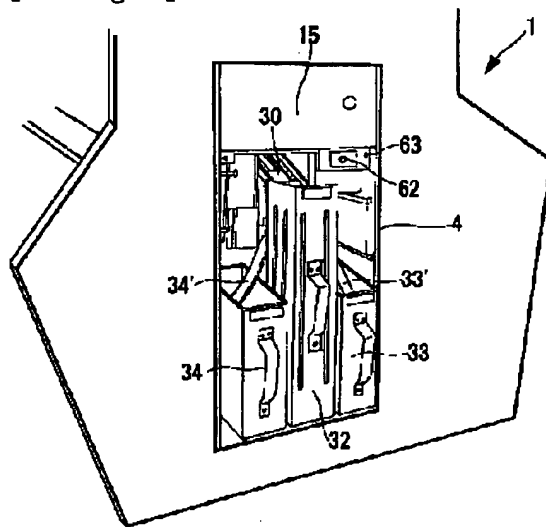
[Drawing 8]



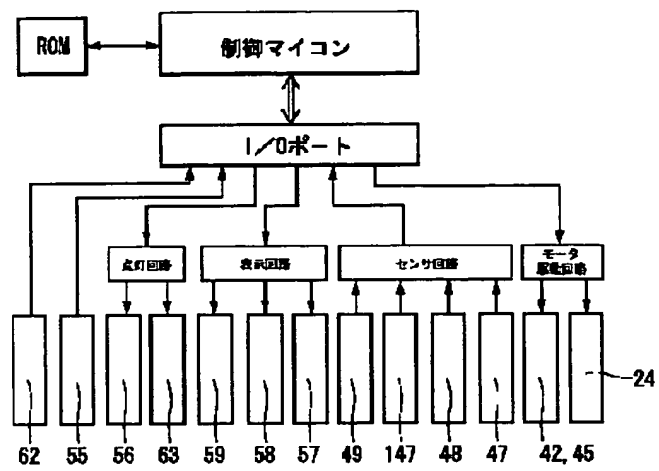
[Drawing 9]



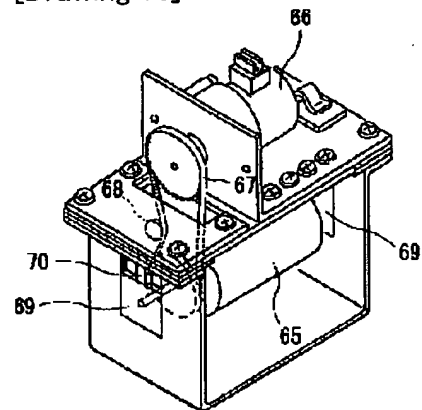
[Drawing 11]



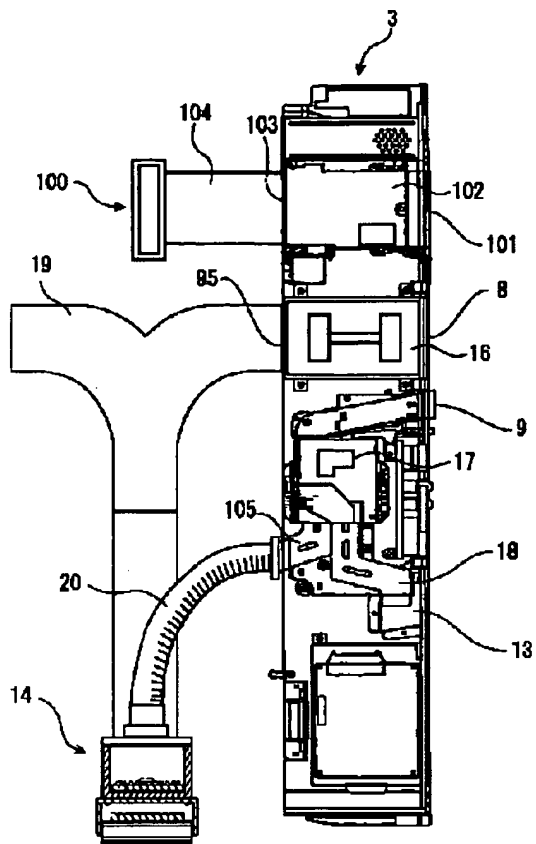
[Drawing 13]



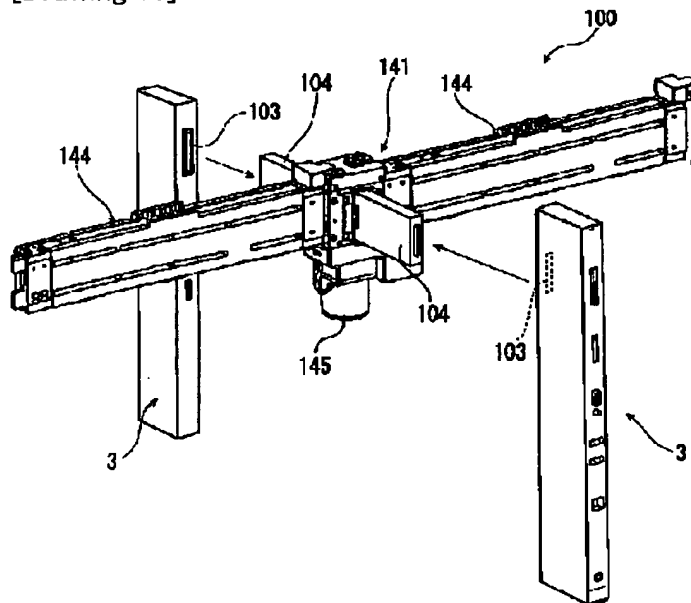
[Drawing 16]



[Drawing 14]



[Drawing 15]



[Translation done.]